

Work Order ID 79949***79949***

Page 1

Wednesday, February 08, 2012 9:55:56 AM

Item ID: D4022-5 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Thermal Switch
Start Date: 2/9/2012 Start Qty: 40.00 ***40*** Cust Item ID:
Required Date: 2/9/2012 Req'd Qty: 40.00 ***40*** Customer:
Reference:

Approvals: Process Plan: ✓ Date: 12-02-8 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4022	B

100

0.00

100

Purchasing

Purchasing

Memo

Issue P/O: 16138
Purchase part as per Dwg D4022
Part #: T23A125BSR2-15
Possible Supplier: NEWARK
Material release note required

0.00

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

0.00

✓ 12-02-8
(40)

✓ 12/2/10 (40)

Work Order ID 79949

79949

Page 2

Wednesday, February 08, 2012 9:55:56 AM

Item ID: D4022-5 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Thermal Switch
 Start Date: 2/9/2012 Start Qty: 40.00 ***40*** Cust Item ID:
 Required Date: 2/9/2012 Req'd Qty: 40.00 ***40*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC6- Inspect dimensions to drawing Memo	0.00 0.00				cont (40)			
130 *130* Packaging Packaging	Identify as per dwg & Stock Location: <u>83</u> Memo	0.00 0.00				12/2/13		(40)	
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00							12/2/13 40

Picklist Print

Wednesday, February 08, 2012 9:56:02 AM

Page 1

Work Order ID: 79949

79949

Parent Item: D4022-5

D4022-5

Parent Item Name: Thermal Switch

Start Date: 2/9/2012

Required Date: 2/9/2012

Start Qty: 40.00

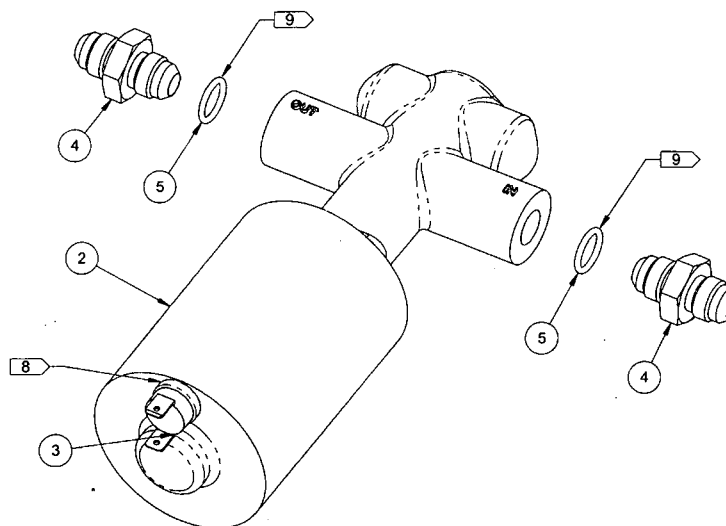
Required Qty: 40.00

Comments: IPP rev A 09.12.23 new Issue Prelim EC verified by: DD IPP Rev:B
10.05.17 as per ECN10-562 DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
T23A125BSR2-15		Purchased	No			110	Each	0.0000	1	1			
T23A125BSR2-15									**				
thermal switch													

6/2/10 (H)

ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4022-041	FUEL TRANSFER PUMP ASSEMBLY	A8150-B1-JCA
2	1	D4022-1	FUEL TRANSFER PUMP	
3	1	D4022-5	THERMAL SWITCH	
4	2	AN818-6D	FITTING, UNION	
5	2	MS29512-06	O RING	



D4022-041 FUEL TRANSFER PUMP ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4022-041" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 2.61 lbs
- 8) ATTACH D4022-5 THERMAL SWITCH TO D4022-1 FUEL PUMP IN LOCATION SHOWN USING METALSET A4
- 9) LUBRICATE O-RING WITH ULTRACHEM ASSEMBLY FLUID #1, FUEL-LUBE, MOLYKOTE 55 O-RING GREASE OR EQUIVALENT

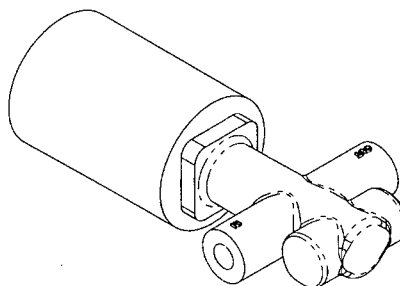
B	CORRECTED SPELLING OF "AEROSPARES"	DC	11.09.28
A	NEW ISSUE	HS	10.04.16
REV.	DESCRIPTION	BY	DATE
DESIGN	DC	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DC	DRAWING NO.	REV. B
CHECKED	DC	D4022	SHEET 1 OF 4
MFG. APPR.		TITLE	SCALE
APPROVED	149	FUEL PUMP	NTS
DE APPR.		COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	
DATE	11.09.28		

RELEASED
2011-11-16
JW

79949
R12021

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4022-1	REF JCA/M47/D3/SHT 13

SPECIFICATION CONTROL DRAWING



DART PART NUMBER	SUPPLIER	SUPPLIER PART NUMBER	OPERATING VOLTAGE	FLOW (GPH)	OUTPUT PRESSURE (PSI)	TEMPERATURE RANGE
D4022-1	WELDON	A8150-B1	24 VDC	35 - 50	5 - 25	-65°F TO +185°F
	AEROSPARES ACCESSORIES	A8150-B1	24 VDC	35 - 50	5 - 25	-65°F TO +185°F



D4022-X FUEL TRANSFER PUMP

RELEASED
2011-11-16

NOTES:
 1) MATERIAL: N/A
 2) FINISH: N/A
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 6) IDENTIFICATION: N/A
 7) WEIGHT: 2.6 lbs

DESIGN	<i>BC</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>BC</i>		
CHECKED	<i>BC</i>	DRAWING NO. D4022	REV. B
MFG. APPR.		SHEET 2 OF 4	
APPROVED	<i>140</i>	TITLE	SCALE
DE APPR.	<i>140</i>	FUEL PUMP	NTS
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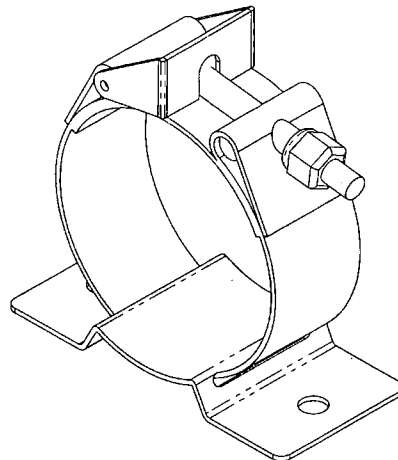
DART AEROSPACE
PART NUMBER

D4022-3

JOHN CAMERON AVIATION
PART NUMBER

REF JCA/M47/D3/SHT 13

SPECIFICATION CONTROL DRAWING



DART PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	MATERIAL	FITS MOTOR SIZE (ϕ)
D4022-3	WELDON	TC 250-100	STAINLESS STEEL	2.5
	AIRCRAFT SPRUCE AND SPECIALTY	05-00021	STAINLESS STEEL	2.5
	AEROSPACE ACCESSORIES	TC 250-100	STAINLESS STEEL	2.5

D4022-X FUEL PUMP MOUNTING BRACKET

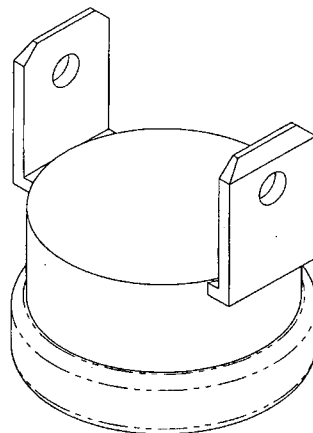
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.33 lbs

DESIGN	<i>JE</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>JE</i>		
CHECKED	<i>JE</i>	DRAWING NO. D4022	REV. B
MFG. APPR.			SHEET 3 OF 4
APPROVED	<i>JE</i>	TITLE	SCALE
DE APPR.	<i>JE</i>	FUEL PUMP	NTS
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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4022-5	REF JCA/M47/D3/SHT 13

SPECIFICATION CONTROL DRAWING



DART PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	ALTERNATE PART NUMBER	TEMPERATURE WHEN SWITCH OPENS
D4022-5	FARNELL	1006847	3775628	125°F
	HONEST-WELL	T23A125BSR2-15	3775628	125°F
	NEWARK	98K1992	3775628	125°F

D4022-X THERMAL SWITCH

RELEASED
2011-11-16

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A

DESIGN	AS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DC		
CHECKED	AS	DRAWING NO. D4022	REV. B
MFG. APPR.			SHEET 4 OF 4
APPROVED	MP	TITLE FUEL PUMP	SCALE NTS
DE APPR.	SH		
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO16138

Purchase Order Date 2/8/2012

PO Print Date 2/8/2012

Page Number 1 of 2

Order From :

VC-NEW002

NEWARK
PO BOX 4276
POSTAL STATION "A"
TORONTO, ONTARIO M5W 5V8
CANADA

Contact Name
Vendor Phone
Vendor Fax
Vendor Account Nbr

800-463-9275 Ext.Sales
888-551-4801

Buyer
Requisition Nbr
Tax Resale Nbr
Terms
Currency
FOB

Brigitte Golden
10127-2607
Net 30
CAD
Destination-Collect

Ship To :

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	36161	terminal end	2/9/2012 Yes	✓ 40.00 Each	FedEx Overnigh	\$0.2430	\$9.72
		Special Inst:	As per DWG: D4009 Rev: A B79929				
2	JV-5	Switch Actuator	2/9/2012 Yes	✓ 7.00 Each	FedEx Overnigh	\$15.9100	\$111.37
		Special Inst:	As per DWG: D4513 B79901				
3	T23A125BSR2-15	thermal switch	2/9/2012 Yes	40.00 Each	FedEx Overnigh	\$1.9500	\$78.00
		Special Inst:	AS PER DWG: D4022-5 REV:B B79949				

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 2

Change Date: 2/8/2012

Master Packing List

Order #: 054625

Number of Cartons: 1

Number of Lines: 5

Ship Date: 2/8/2012

Bill-To Acct: V1 659740001

Ship-To Acct:

Bill To:

Dart Aerospace Ltd
Accounts Payable
1270 Aberdeen St
Hawkesbury ON K6A 1K7 CA

Ship To:
BRIGITTE GOLDEN
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7 Canada

Sold To:

Brigitte Golden
6136325200
bgolden@dartaero.com

Customer PO: PO16138



11B,

Line	Qty	SKU #	UOM	Order Qty	Shipped Qty	Previous Shipped Qty	Back Ordered Qty	RoHS
1	40	20C8725	EA/1	40	40	0	0	Yes
Mfr part# 36161 Customers part# Mfr Name TE CONNECTIVITY / AMP Country of Origin US TERMINAL, RING TONGUE, #10, CRIMP YELLOW; Connector Type: Ring Tongue; Series: PIDG; Insulator Color: Yellow; Termination Method: Crimp; Stud/Tab Size: #10; Wire Size (AWG): 12-10; Contact Material: Copper; Contact Plating: Tin								
					Shipped Qty			
					306456	8/4/11		
2	7	23F5010	EA/1	7	7	0	0	Yes
Mfr part# JV-5 Customers part# Mfr Name HONEYWELL S&C Country of Origin US ACTUATOR, 180ZF, JV SERIES LIMIT SWITCH; For Use With: Honeywell V3 Series Micro Switches; Operating Force Max: 180zf; Differential Travel Max: 0.406mm; Over Travel Min: 0.787mm; Actuator Length: 0.81"; Features: Roller Leaf								
					Shipped Qty			
					435485	2/7/12		
3	40	98K1992	EA/1	40	40	0	0	Yes
Mfr part# T23A125BSR2-15 Customers part# Mfr Name MULTICOMP Country of Origin TW THERMAL SWITCH, NC, 125°C; Contact Configuration: SPST-NC; Contact Rating: 125VAC/15A, 250VAC/10A, 250VAC/16A; No. of Pins: 2; Contact Configuration: SPST; Contact Current Max: 10A								
					Shipped Qty			
					401556	11/14/11		
					379840	10/18/11		
4	10	69K7015	EA/1	10	10	0	0	Yes
Mfr part# MTA106D Customers part# Mfr Name TE CONNECTIVITY / ALCOSWITCH Country of Origin JP TOGGLE SWITCH, SPDT, 6A, 125VAC; Contact Configuration: SPDT; Switch Operation: On-On; Contact Voltage AC Nom: 125V; Contact Voltage DC Nom: 28V; Contact Current Max: 6A; Switch Terminals: Solder; Actuator Style: Bat								
					Shipped Qty			
					120402	11/23/11		

Yes = RoHS Compliant. YesX = Compliant per exemption. See our website www.newark.com for definition of RoHS compliance. Newark is a distributor of electronic products manufactured by others. The Country of Origin data on the packing list has been provided by the manufacturer and Newark is not responsible for the accuracy

Certificate of Conformance on Request

Information for PO Line

1	MFR# 36161	Part:	TERMINAL, RING TONGUE, #10, CRIMP YELLOW; Connector Type: Ring Tongue; Series: PIDG; Insulator Color: Yellow; Termination Method: Crimp; Stud/Tab Size: #10; Wire Size (AWG): 12-10; Contact Material: Copper; Contact Plating: Tin
	RoHS: Yes		
	SKU: 20C8725		
2	MFR# JV-5	Part:	ACTUATOR, 180ZF, JV SERIES LIMIT SWITCH; For Use With: Honeywell V3 Series Micro Switches; Operating Force Max: 180zf; Differential Travel Max: 0.406mm; Over Travel Min: 0.787mm; Actuator Length: 0.81"; Features: Roller Leaf
	RoHS: Yes		
	SKU: 23F5010		
3	MFR# T23A125BSR2-15	Part:	THERMAL SWITCH, NC, 125°C; Contact Configuration: SPST-NC; Contact Rating: 125VAC/15A, 250VAC/10A, 250VAC/16A; No. of Pins: 2; Contact Configuration: SPST; Contact Current Max: 10A
	RoHS: Yes		
	SKU: 98K1992		
4	MFR# MTA106D	Part:	TOGGLE SWITCH, SPDT, 6A, 125VAC; Contact Configuration: SPDT; Switch Operation: On-On; Contact Voltage AC Nom: 125V; Contact Voltage DC Nom: 28V; Contact Current Max: 6A; Switch Terminals: Solder; Actuator Style: Bat
	RoHS: Yes		
	SKU: 69K7015		

To insure proper credit to your account, please contact Customer Service at 866-752-8279 for instructions.



element

Order #: 054625

Date shipped:

RMA #:

Reason for Return:

NII 013